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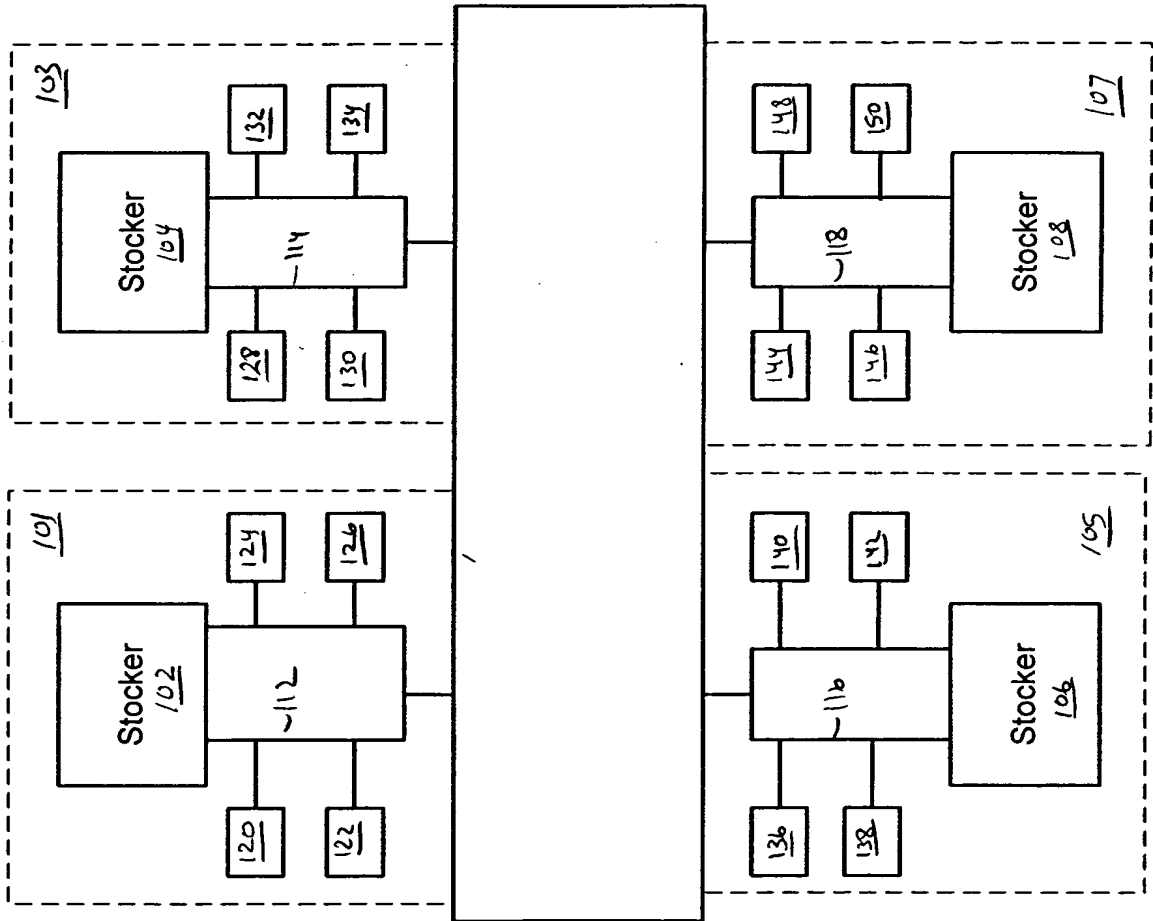


Fig. 1

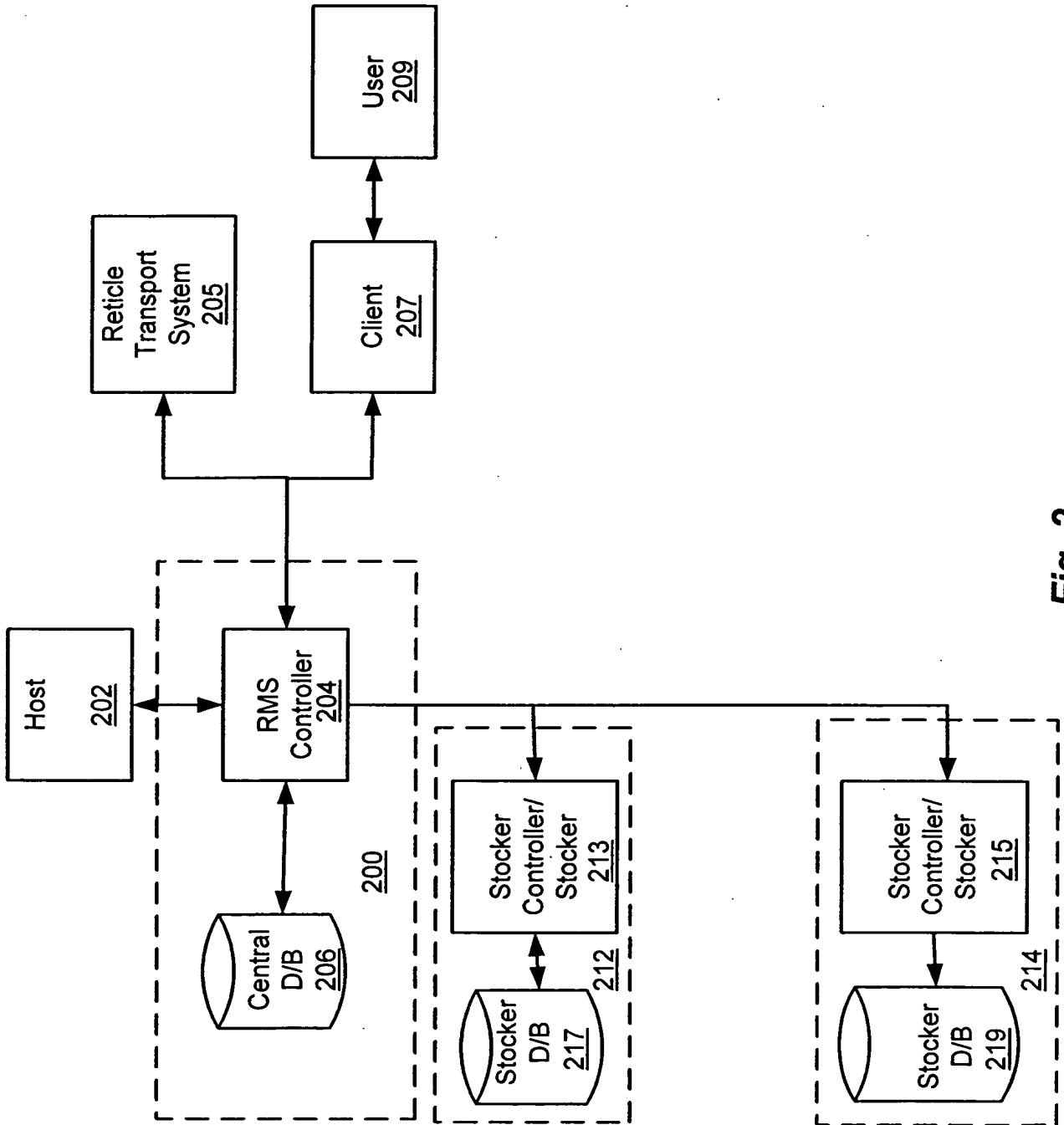


Fig. 2

Attribute Name	Attribute Type	Attribute Definition
Reticle ID	Character string (255-char. max.)	<u>Primary key</u> . Identity of the reticle. Must be unique. Empty Reticle carriers are assigned unique Reticle ID by the system.
Reticle carrier ID	Character string (255-char. max.)	<u>Secondary Key</u> . Identity of the reticle carrier within which the reticle is now housed. It is blank if not kitted, can contain duplicates for the case of multiple Reticles per reticle carrier.
Times Retrieved	32-bit unsigned Long	Number of times reticle has been retrieved.
Date Last Retrieved	Date/time	Date and time this reticle was last retrieved.
Last Retrieve User ID	Character string (255-char. max.)	User name of the operator who last selected this reticle for retrieve.
Times Stored	32-bit unsigned Long	Number of time the reticle has been stored
Date Last Stored	Date/time	Date and time the reticle was last stored for use.
Last Stored User ID.	Character string (255-char. max.)	User name of the operator who last stored this reticle after it was used (not cleaned or inspected).
Times Cleaned	32-bit unsigned Long	Number of times this reticle has been cleaned
Date Last Cleaned	Date/time	Date and time the reticle was last stored after being cleaned.
Last Cleaned User ID	Character string	User name of the operator who last stored

Fig. 3A

	(255-char. max.)	this reticle after being cleaned.
Cleaned By	Character string (255-char. max.)	Identity of reticle cleaner.
Location Cleaned	Character string (255-char. max.)	Identity of location where reticle was last cleaned.
Times Inspected	32-bit unsigned Long	Number of times this reticle has been inspected.
Date Last Inspected	Date/time	Date and time this reticle was last stored after being inspected.
Last Inspected User ID	Character string (255-char. max.)	User name of the operator who last stored the reticle after being inspected.
Inspected By	Character string (255-char. max.)	Identity of reticle inspector.
Location Inspected	Character string (255-char. max.)	Identity of location where reticle was last inspected.
Last Kit Time	Date/time	Date and time when this reticle was kited.
As Reticle carrier Time	Delta time	Cumulative time this reticle has spent in a reticle carrier. This is independent of the reticle carrier. Only updated upon an un-kitting transformation.
Last Un-Kit Time	Date/time	Date and time when this reticle was un-kitted.
As Bare Time	Delta time	Cumulative time this reticle has spent in a bare reticle Stocker. This is independent of the Stocker. Only updated upon a kit transformation.
Date Entered	Date/time	Date and time this reticle was first entered into the system.
Creator User ID	Character string (255-char. max.)	User name of the person who created the reticle. Assigned when Reticle created.
Keep Kitted	Boolean	True/False indication of whether the reticle is to stay in the reticle carrier independent of automatic aging.
Current Location	Character string (255-char. max.)	Current location of reticle.
Last Location	Character string (255-char. max.)	Previous location of reticle.

Fig 3B

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Last Reticle Repair	Date/time	Date and time the reticle was last repaired.	316
Repair Count	32-bit unsigned Long	Number of times the reticle has been repaired.	
Last Re-pelliclization	Date/time	Date and time the reticle was last re-pellicled.	318
Re-pelliclization Count	32-bit unsigned Long	Number of time the reticle has been re-pelliclized.	
Hold Time	Date/time	Date and time the reticle was put on hold. This is blank when not on hold.	320
Hold User ID	Character string (255-char. max.)	User name of the person who issued the hold.	

Fig 3c

Attribute Name	Attribute Time	Attribute Definition
Transport Name	Character string (255-char. max.)	<u>Primary Key</u> . Customer designation given to each Stocker or Aerotrak. Must be unique.
Transport Type	Enum (reticle, reticle carrier, Aerotrak)	Definition of what type of transport.
Transport Capacity	32-bit unsigned Long	Number of locations within the Stocker. Not valid for Aerotrak
Transport Capacity High Water Count	32-bit unsigned Long	Number of shelves allowed to keep full within a transport. Not valid for Aerotrak.
Empty Reticle carrier Count	32-bit unsigned Long	Number of empty reticle carriers contained with in this Stocker. Only valid for reticle carrier Stockers.
Empty Reticle carrier High water Count	32-bit unsigned Long	Value set to determine highest number of empties allowed in system. Used in aging and empty management. Only valid for Reticle carrier Stockers
Empty Reticle carrier Low water Count	32-bit unsigned Long	Value set to determine the lowest number of empties allowed in system. Used in aging and empty management. Only valid for Reticle carrier Stockers.
Port Name List	Character string (255-char. max.)	Semicolon delimited list of the port names reachable by this Stocker.
Port Type List	Enum list (reticle, reticle carrier, Aerotrak)	List of enumerated type indicating the type of port specified in the name list.
Age Interval	Delta time	Amount of time this transport uses the determine reticle carrier usage aging.
Age Tier Level	32-bit unsigned Long	Used to determine tiering of system. Gives an indication of ranking of this transport in relation to others.

Attribute Name	Attribute Time	Attribute Definition
Inspection Max	32-bit unsigned Long	Maximum number of times a reticle is allowed to be inspected.
Inspection Bare Interval	Delta time	Amount of time a reticle is allowed to be bare between inspections.
Inspection Reticle carrier Interval	Delta time	Amount of time a reticle is allowed to be kitted between inspections.
Uses between inspections	32-bit unsigned Long	Number of uses allowed between inspections.
Clean Max	32-bit unsigned Long	Maximum number of times a reticle is allowed to be cleaned.
Clean Bare Interval	Delta time	Amount of time a reticle is allowed to be bare between cleanings.
Clean Reticle carrier Interval	Delta time	Amount of time a reticle is allowed to be kitted between cleanings.
Uses between cleanings.	32-bit unsigned Long	Number of uses allowed between cleanings.
Reticle carrier Aging check interval	Delta time	Time between checks are made to determine reticle carrier age and possible tier degradation.

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Fig 3E

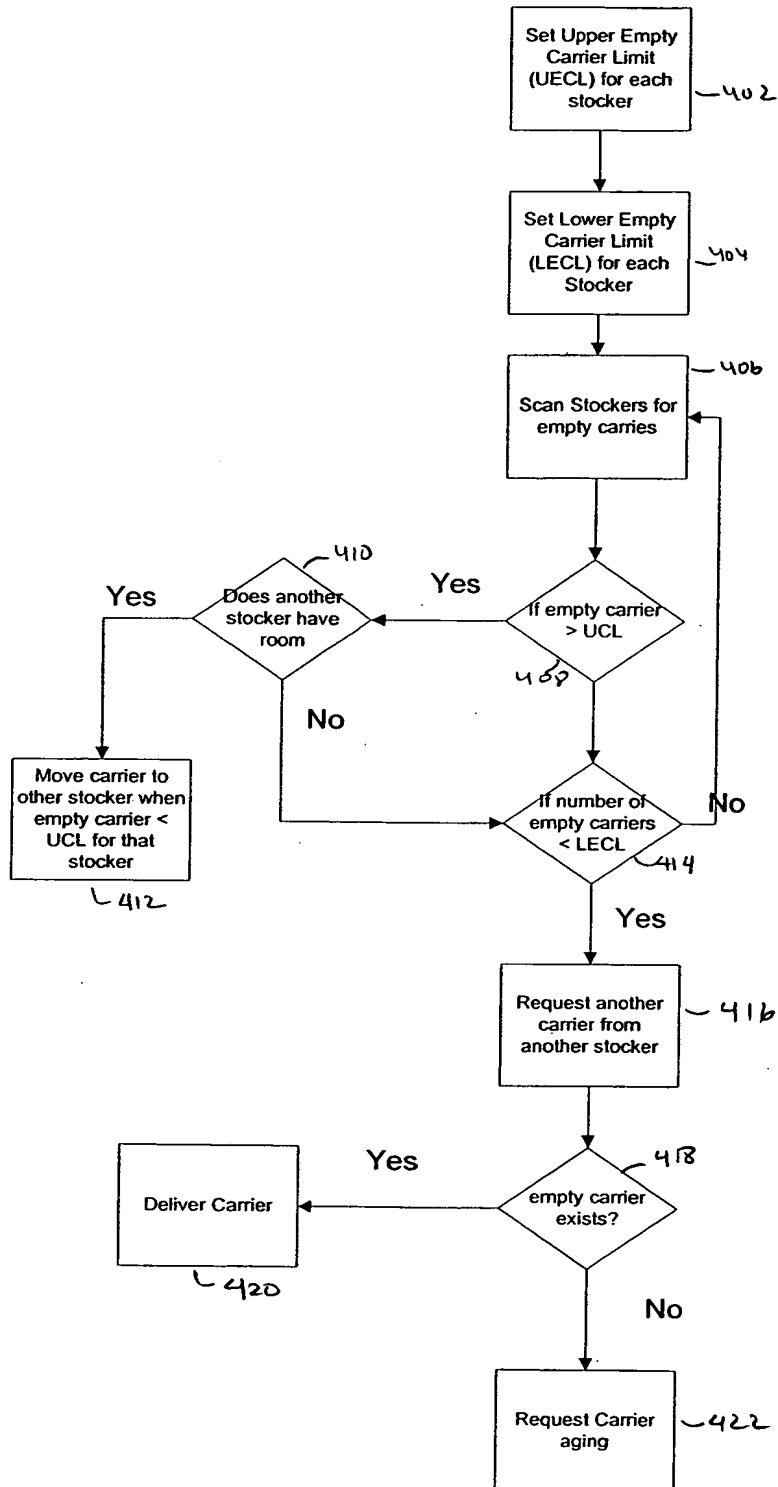


Fig. 4



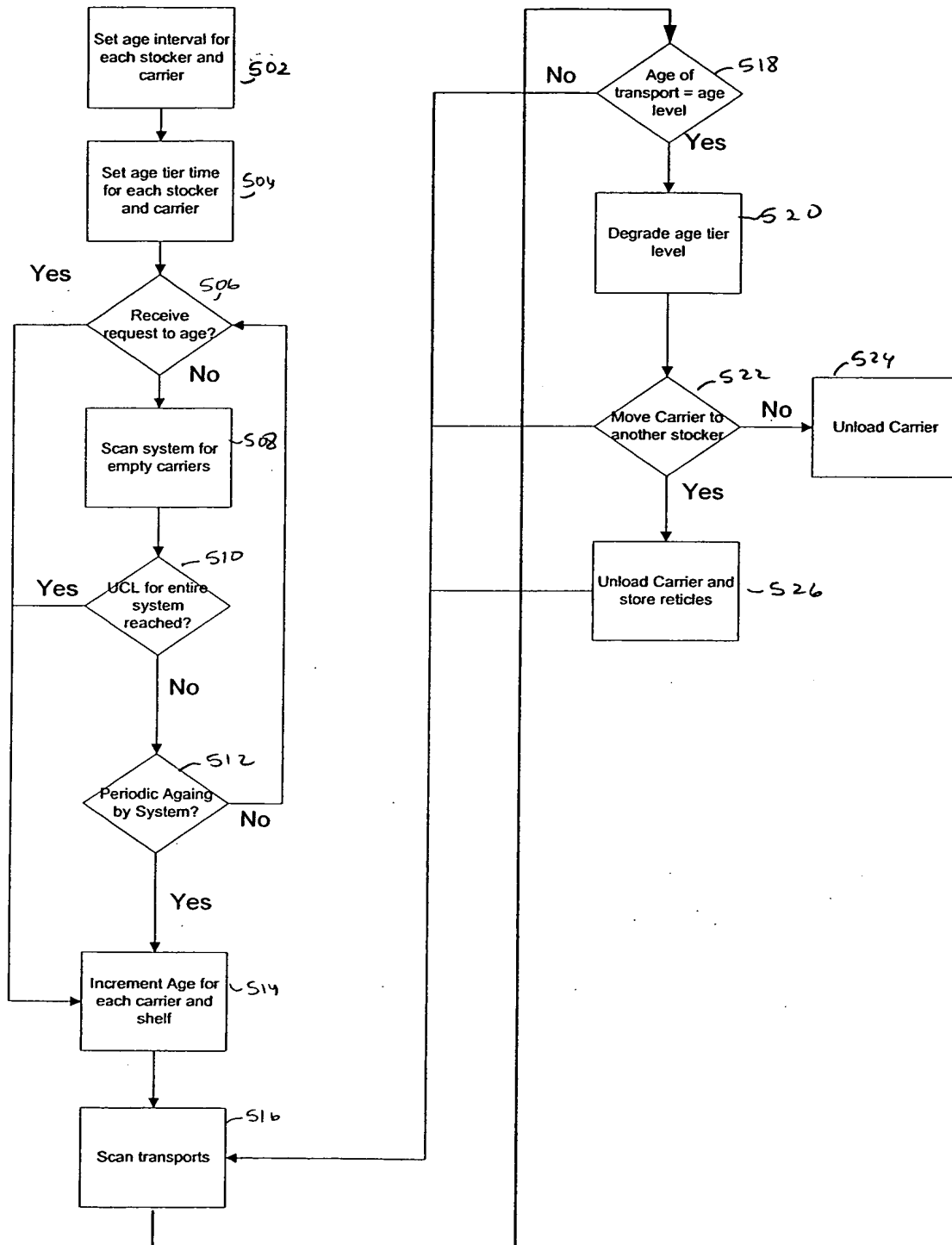
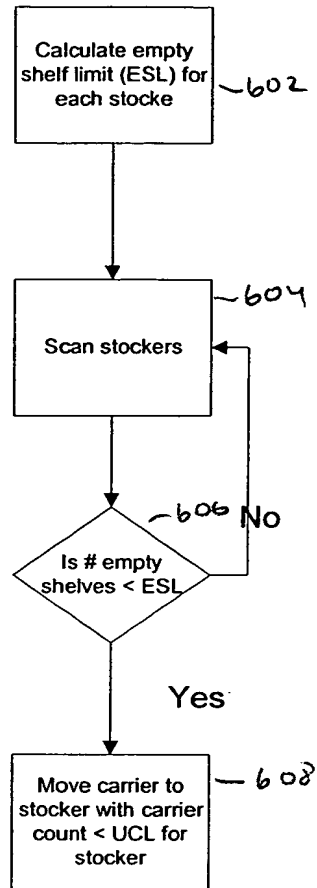


Fig. 5



**Fig. 6**